

CLAIMS

1. Sensor holder (10) for arranging at least one sensor (32) through the wall and into communication with the inside of a housing (44), **characterised in that** said sensor holder (10) comprising a first and a second component (12,14), the first component (12) being adapted to hold said sensor (32), the second component (14) being provided with a first sealing surface (36) and at least one throughgoing opening (38),
5 a portion of the sensor (32) being adapted to extend from the first component (12), through the opening (38) in the second component (14) and into communication with the inside of the housing (44), the envelope surface of the throughgoing opening (38) in the second component (14) being adapted to be tightly sealed to the sensor (32) when pressing together
10 the first and second component (12,14) of the sensor holder (10), and the first sealing surface (36) of the second component (14) being adapted to be tightly sealed to a second sealing surface (50) provided in the housing (44) when pressing together the sensor holder (10) and the housing (44).
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2. Sensor holder (10) according to claim 1, whereby the throughgoing opening (38) of the second component (14) is conical or at least frusto conical, the conical or at least frusto conical form being widened towards a surface opposite the first sealing surface (36), and whereby first sealing means (42) is provided in the conical or at least frusto conical form of the throughgoing opening (38).
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3. Sensor holder (10) according to claim 1, whereby second sealing means (52) is provided between the first sealing surface (36) and the second sealing surface (50).
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4. Sensor holder (10) according to claims 2 or 3, whereby the sealing means (42,52) is a compressible sealing ring such as an O-ring.
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5. Sensor holder (10) according to claim 1, whereby the throughgoing opening (38) in the second component (14) of the sensor holder (10) and the sensor (32) have rectangular forms.
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6. Sensor holder (10) according to claim 1, whereby the throughgoing opening (46) in the housing (44) has an oval or circular form.

5 7. Sensor holder (10) according to claim 3, whereby the first sealing surface (36) being provided with a groove (54) for receiving the second sealing means (52), the groove (54) having an oval or circular form.

10 8. Sensor holder (10) according to claim 1, whereby a first portion (20) is provided with a groove (30) adapted to receive at least a portion of the sensor (32).

9. Sensor holder (10) according to claims 5 and 8, whereby the groove (30) is rectangular and has a depth less than the length between two opposite sides of the sensor (32) whereof one of said sides is facing the bottom of the groove (30).

15 10. Sensor holder (10) according to claim 8, whereby the first component (12) further comprising a second portion (22) and that the first and second portions (20,22) being adapted to be clamped together by first fastening means (28).

20 11. Sensor holder (10) according to claim 1, whereby it is provided with second fastening means (40) for tightening the first and second components (12,14) to each other.

25 12. Sensor holder (10) according to claim 1, whereby it is provided third fastening means (56) for tightening the sensor (32) holder to the housing (44).

13. Sensor holder (10) according to any of claims 10-12, whereby the fastening means (28,40,56) is a screw joint.